



Submission:

2004-004564-NYHB

Customer:

Petro-Canada

Terminal:

OSWEGO SPRAGUE NY

Vessel:

MT DIAMOND STAR

Reference:

Purchase Order:

Date Received:

31-Oct-04

Date Analyzed:

31-Oct-04

Date Reported:

1-Nov-04

Lab Reference: 2004-004564-NYHB-001

Sample Designated As: Shore Tank 5 After Discharge Upper NO. 6 FUEL OIL

Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	13.3	deg API
D4294	Sulfur	1.30	Wt %

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE.

THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE

BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF

CERTIFICATE THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER

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SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE

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Lab Reference: 2004-004564-NYHB-002

Sample Designated As: Shore Tank 5 After Discharge Middle NO. 6 FUEL OIL

Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	13.1	deg API
D4294	Sulfur	1.33	Wt %

Lab Reference: 2004-004564-NYHB-003

Sample Designated As: Shore Tank 5 After Discharge Lower NO. 6 FUEL OIL

Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	13.0	deg API
D4294	Sulfur	1.33	Wt %

Lab Reference: 2004-004564-NYHB-005

Sample Designated As: Shore Tank 5 After Discharge Equal UML Composite NO. 6 FUEL OIL

Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	13.1	deg API
D4294	Sulfur	1.32	Wt %
D445/D2161	Kinematic Viscosity @ 122°F	303.8	cSt
D445/D2161	Saybolt Furol Viscosity @ 122 °F	143.5	SFS
D97	Pour Point	3	deg C
D97	Pour Point	37	deg F
D95	Water	0.1	Vol %
D473	Sediment by Extraction	0.03	Wt %
D1796	Sediment and Water	0.1	Vol %



## Report of Analysis

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OSWEGO SPRAGUE NY

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MT DIAMOND STAR

Reference:

Purchase Order:

Date Received:

31-Oct-04 31-Oct-04

Date Analyzed: Date Reported:

1-Nov-04

2004-004564-NYHB-005

Lab Reference	2: 2004-004364-N Y H.B-003		
Sample Designated As	s: Shore Tank 5 After Discharge Equal UML	Composite NO. 6 FUEL O	IL
Method	Test	Results	Units
D93 method A	Corrected Flash Point	213	deg F
D482 @ 775 deg C	Ash @ 775 deg C	0.034	Wt %
ICP	Sodium	24	ppm
ICP	Vanadium	45	ppm
D5762	Nitrogen	0.33	Wt %
D240	Gross Heat of Combustion	18580	BTU / lb
D240	Gross Heat of Combustion	151408	BTU / gal
D3279	Asphaltene / n-Heptane Insolubles	1,41	Wt %
D4530	Micro Carbon Residue	8.8	Wt %

Intertek Caleb Brett Darius Pazdur, Laboratory Manager

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DELIVERY